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(71) Applicant *(for all designated States except US)*: **INVERNESS MEDICAL LIMTED** [GB/GB]; Beechwood Park North, Inverness IV2 3ED (GB).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **DAVIES, Oliver, William, Hardwicke** [GB/GB]; An Cluaran, Croy, Invernesshire IV2 5PG (GB). **MARSHALL, Robert** [GB/GB]; 91 Towerhill Avenue, Inverness IV2 5FX (GB). **O'REILLY, Thomas, Joseph** [GB/GB]; Loch View of Duntelchaig, Farr, Inverness IV2 6AW (GB). **MITCHELL, Darren, Iain** [GB/GB]; 33 Berneray Court, Inverness IV2 3BF (GB). **ROBERTSON, Emma-Louise** [GB/GB]; 5 Ferntower Place, Culloden, Inverness IV2 7TL (GB).

(74) Agents: **MERCER, Christopher, Paul** et al.; Carpmaels & Ransford, 43-45 Bloomsbury Square, London WC1A 2RA (GB).

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(54) Title: INK COMPOSITION AND METHOD FOR USE THEREOF IN THE MANUFACTURING OF ELECTROCHEMICAL SENSORS

(57) Abstract: An ink composition for manufacturing electrochemical sensors in accordance with the present invention includes graphite, carbon black, a resin and at least one solvent (e.g., at least one solvent with a boiling point between 120 °C and 250 °C). The ink composition has a weight ratio of graphite to carbon black is in a range of from 4:1 to 1:4 and a weight ratio of a sum of graphite and carbon black to resin in a range of from 10:1 to 1:1. Also, a method for manufacturing an electrochemical sensor includes transporting a substrate web past at least one print station and printing at least one electrochemical sensor electrode on the substrate web at the print station(s). The printing is accomplished by applying an ink composition to substrate web, wherein the ink composition includes, graphite, carbon black, a resin and at least one solvent. In addition, weight ratio of graphite to carbon black in the ink composition is in a range of from 4:1 to 1:4 and a weight ratio of a sum of graphite and carbon black to resin is in a range of from 10:1 to 1:1.